



ATI TV WONDER™ USB 2.0

Installation and Setup User's Guide

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IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and the operating instructions should be adhered to.
- **Compatibility** - This option card is for use only with IBM AT or compatible UL Listed personal computers that have Installation Instructions detailing user installation of card cage accessories.
- **Grounding** - CAUTION: For Continued Protection Against Risk of Electric Shock and Fire, This Accessory Should Be Installed Only In Products Equipped With A Three-wire Grounding Plug, A Plug Having a third (Grounding) Pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- All option card securement pins shall be completely tightened as to provide continuous bonding between the option card and the PC chassis.
- **Outdoor Antenna Grounding** - Since an outdoor antenna or cable system is connected to the product, be sure that the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection of grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet, and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other light or power circuits, or where it can fall into such power lines or circuits.
- When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them may be fatal.
- **Note to CATV System Installer** - This reminder is provided to call the CATV systems installer's attention to Section 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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CHAPTER 1: GETTING STARTED

Before You Start

Congratulations on the purchase of your TV WONDER™ USB 2.0. This section will guide you through the process of gathering information required for registering your TV WONDER™ USB 2.0 for warranty and customer service.

Record your unit's serial numbers

The 102 part number (P/N) and the serial number (S/N) printed on the bottom of the unit, shown bold and underlined in the illustration below, are required for registration. Write these numbers down before installing your new ATI product.



A possible arrangement of the serial number and 102 part number

①	Serial number
②	102 part number

System Requirements

Computer system	• Intel® Pentium® 4/III/II/Celeron, AMD® K6/Athlon or compatible • 128MB of system memory • 1GHz minimum processor speed for MPEG-2 video capture • USB 2.0 port • Sound card and speakers
Operating system	Windows® XP, Windows 2000®
Display adapter	16-bit, VGA, with graphics sub-systems supporting DirectX® overlay. The following graphics accelerators work with the ATI TV WONDER™ USB 2.0. Please visit our web site, ati.com, for an updated list of supported graphics accelerators. ATI desktop products • RADEON™ 9100 IGP, 7000 / 7500 / 8500 / 9000 / 9600 / 9700 / 9800 ATI mobility products • ATI Mobility RADEON 9600 / 9700 Series • ATI Mobility FireGL 9000 • ATI Mobility 7500 Other desktop products • Intel® 82845G Graphics controller / 82830M Graphics Controller • NVIDIA® GeForce™ FX 5200 / 4 TI 4600 • SiS 650 / 651 Series • Matrox Parhelia™ Other mobility products • Intel® 855GM • SiS 648MX, 661MX, M661FX, M650
TV source	Antenna or cable

Online Help

The following help options are available:

Feature Help	Click the Help button in the display panel to open the online help.
Context-Sensitive Help	Context-sensitive help is always available for each feature; just press the F1 key.

Tool Tips

Simply move the mouse cursor over a control to see a description of its purpose. As you become familiar with your TV WONDER™ USB 2.0, you may want to turn off Tool Tips — click the Show Tool Tips checkbox in the Display tab (for more information, see *TV Display settings on page 11*).

Using the Electronic User's Guide

Your ATI graphics card comes complete with a User's Guide in Portable Document Format (PDF). The User's Guide describes in detail the features and functions of your ATI graphics card and the associated software. You will need Adobe® Reader® software, available from www.adobe.com.

To open the User's Guide

- 1** Insert the ATI INSTALLATION CD-ROM into your CD-ROM drive.
If Windows® runs the CD-ROM automatically, proceed to step 4.
- 2** Click **Start > Run**, and then type the following: **D:\ATISSETUP**
(If D is not your CD-ROM drive, substitute the correct drive letter.)
- 3** Click **OK**.
- 4** Click **Documentation**, and then open the Documentation folder
- 5** Click **User Guides**, and then open the User Guides folder.

REMOTE WONDER™

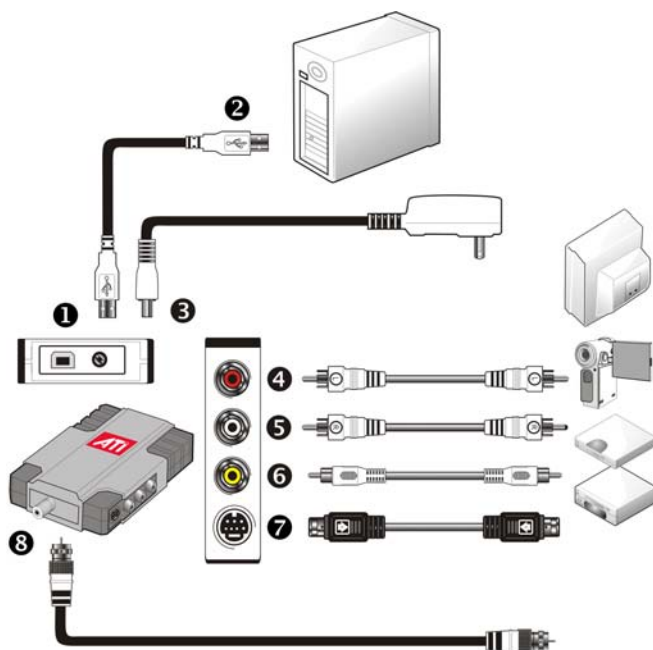
The optional ATI REMOTE WONDER™ and REMOTE WONDER™ II units replace all the functionality of a mouse in all Windows® software applications. If you have an ATI graphics card installed in your system, you will also enjoy additional control over ATI software. For complete information and installation instructions, see the *ATI REMOTE WONDER™ Installation Guide* or the *ATI REMOTE WONDER™ II Installation Guide* that came with your REMOTE WONDER™.



REMOTE WONDER™ and REMOTE WONDER™ II

Connecting Video and Audio Devices

You can connect a variety of analog video and audio devices to TV WONDER™ USB 2.0, such as a video camera, VCR, DVD player, CD player, or audiotape. Use the following illustration as a guide.



Possible Device Connections

- | | |
|---|--|
| ① | USB port on TV WONDER™ USB 2.0 |
| ② | USB 2.0 port on PC |
| ③ | Power supply connector |
| ④ | Right audio input |
| ⑤ | Left audio input |
| ⑥ | Composite video input |
| ⑦ | S-Video In. S-Video cables and RCA cables are available separately from a consumer electronics dealer. |
| ⑧ | Cable TV or antenna input |

Setting Up Your TV WONDER™ USB 2.0

- 1 Insert the ATI Installation CD-ROM into your CD-ROM drive.
If Windows® runs the CD-ROM automatically, proceed to step 4.
- 2 Click **Start**, and then click **Run**.
- 3 Type the following: **D:\ATISSETUP**
(If D is not your CD-ROM drive, substitute the correct drive letter).
- 4 Click **ATI Easy Install** to begin the Installation Wizard.
- 5 Follow the Wizard's on-screen instructions and, when prompted,
 - Plug in the AC adapter, and then connect it to your TV WONDER™ USB 2.0.
 - Use the supplied USB cable to connect the TV WONDER™ USB 2.0 to an available USB 2.0 port on your computer.



USB 1.1 functionality is not available. If you connect TV WONDER™ USB 2.0 to a USB 1.1 port, a message appears, stating that this product requires a USB 2.0 connection.

- 6 Reboot when prompted.

Hot-Plugging

If you have the ATI Multimedia Center installed on your computer, when you attach TV WONDER™ USB 2.0, TV automatically starts in the mode it was last running. If TV is already running, video appears in the TV display.

When you unplug the power connector from your TV WONDER™ USB 2.0 or disconnect it from your computer, TV closes.

CHAPTER 2: USING YOUR TV WONDER™ USB 2.0

TV

Watch television on your computer! You can receive up to 125 cable television channels and 70 antenna channels in smooth, full-motion video on the whole screen or in a window.



TV delivers advanced features: Closed Captioning, Video/Still Capture, Channel Surfing, TV-ON-DEMAND™, Scheduled Events, TV Listings, and more. When you click the ATI logo  in the upper left corner of the display panel, the “About” notice appears, and a Task menu displays available and active features.

- All channels may not be available in all countries.
- For information on TV controls, see the online help and Tool Tips.

Special features

Additional special features are available for TV:

- THRUVIEW™— see [THRUVIEW™ on page 49](#).
- EAZYLOOK™— see [EAZYLOOK™ on page 50](#).

To start TV from LaunchPad

Click the TV USB button in the LaunchPad.



To start TV from Windows® taskbar

- 1 In the Windows® taskbar, click **Start**, and then point at **Programs**.
- 2 Point at **ATI Multimedia Center**, and then click **TV**.

You can also start TV from other ATI TV WONDER™ USB 2.0 features — Video CD, CD Audio, File Player, and Library. Click the ATI logo  in the upper left corner of the feature's control panel, and then click **TV**.

Setting up TV

The first time you start TV, you must complete the Initialization Wizard. After that, the Wizard will not run unless you want to re-run it in order to change settings. The Initialization Wizard guides you quickly and easily through setting up TV channels.

To run the Initialization Wizard

- 1 Click the Setup button , and then click the **Display** tab.
- 2 Click the **Initialization Wizard** button. The *TV Channels Initialization Wizard* appears. Follow the Wizard's instructions to select cable or antenna, choose the broadcast standard, and scan for active channels.

If you have TV Listings installed with its current database, it will also add the channel name for each channel. For more information see [TV Listings on page 50](#).

If you do not hear TV audio, ensure that the TV is tuned to a broadcasting channel. See [Troubleshooting on page 61](#) for more information.

- 3 Click **Next**. The *End of Initialization Wizard* panel appears. Click **Finish** to complete TV setup.

Sizing the TV display

You can resize the TV display using the mouse, the Maximize button, or CTRL key combination.

- The F2 key hides/shows the control panel, to save desktop space.

To resize the TV display using the mouse

Drag the display's border. The TV display maintains a fixed aspect ratio (width-to-height) of 4:3 to avoid picture distortion.

To display TV in full-screen

Press CTRL+F or ALT+F, or click the **Maximize** button. To return to the previous size, click the **Full Screen Off** button  or press the **Esc** key.

To display preset sizes using the CTRL key

Size	Key combination
160 x 120 pixels	CTRL + 1
240 x 180 pixels	CTRL + 2
320 x 240 pixels	CTRL + 3
640 x 480 pixels	CTRL + 4
Toggle between full screen and current size	CTRL + F ALT + F
Increase size of display panel	CTRL + Up Arrow
Decrease size of display panel	CTRL + Down Arrow

TV Feature menu

You can access TV functions by right-clicking on the video viewing area or the control panel. This is very useful in full-screen mode. The following menu items are available:

Setting	Function
Setup	Opens the TV setup page.
Hide Controls	Hides / shows the control panel.
Hide Controls and Frame	Hides / shows the control panel and the frame around the TV display.
Always On Top	Displays TV on top of other applications.
THRUVIEW™ Window* THRUVIEW™ Desktop* * Only with supported ATI products	If your computer uses a RADEON™ or later video card, THRUVIEW™Desktop and THRUVIEW™Window are available: • THRUVIEW™ Window: The current panel appears as a translucent layer on top of any other windows, allowing you to work and watch TV at the same time. • THRUVIEW™ Desktop: The current panel appears full-screen as a translucent layer on top of all other windows when minimized.

Setting	Function
Video Desktop	Minimizing TV replaces your desktop pattern with the TV display. If your video card does not have an overlay, Video Desktop is not available (<i>overlay</i> is the placement of a full-motion video window on the display screen).
Minimize TV	Minimizes TV.
Display Size	Indicates the sizes available for the current panel: • Tiny • Small • Medium • Large • Full Screen
Aspect Ratio	Selects the width-to-height ratio for the video window: Non-Fixed If you choose Non-Fixed, and the aspect ratio of the TV program is different from the display, video may appear elongated or flattened. Standard 4:3 Standard TV display Letter Box • 16:9 • 1.85:1 • 2.35:1 Wide Screen • 16:9 • 1.85:1 • 2.35:1
Input Connector	Selects input connector: • Analog TV Tuner • S-Video • Composite
Audio Mode	Sets the audio mode: • Captions when muted • Stereo • Both • SAP • Mono
Closed Captions	Specifies how closed captioned text is displayed. You can also enable the HOTWORDS™ (see page 18) and TV Magazine features (see page 20).
Zoom	Selects the zoom ratio (2x , 4x , or 8x) or Unzoom if already zoomed. For more information, see Zooming and Panning on page 40 .

Setting	Function
Scheduling	Provides options for scheduling, recording, and TV Magazine.
About	Displays the About dialog.
Exit	Closes TV.

TV Display settings

The Display settings page lets you control how video is displayed in TV.

To open the Display settings page

Click the **Setup** button  in the TV control panel, and then click the **Display** tab.

Setting	Function
Video Size	Size Selects the size for the display panel: • Tiny • Small • Medium • Large • Full Screen • User Defined
Aspect Ratio	Selects the aspect ratio (ratio of width to height).
Tool Tips	Show Tool Tips Shows helpful aids for using TV when you point at a control with your mouse. Show Shortcut Shows keyboard shortcuts when you point at a control with your mouse.
Display Feature	Video Desktop When TV is minimized, TV display replaces your desktop pattern. Fixed Aspect Ratio Click to preserve the width-to-height ratio when you resize or zoom the display. Always On Top Displays TV on top of other applications. Auto Hide Controls when in full screen Hides TV controls when displaying TV in full screen.

Setting	Function
Hide Player Hotkey	Specifies a keyboard key that hides/displays TV.
Initialization Wizard	Re-runs the Initialization Wizard. See To run the Initialization Wizard on page 8 .

TV video settings

The video settings page lets you choose a video connector and fine-tune video characteristics.

To open the Video settings page

Click the **Setup** button  in the TV control panel, and then click the **Video** tab.

Setting	Function
Video Properties	Color Adjusts the amount of color in the image. Brightness Adjusts the amount of white in the image. Contrast Adjusts the gradation of tones between light and dark areas. Tint Adjusts the balance of red-to-blue in the image. Tint is not adjustable for PAL or SECAM. Gamma Setting Corrects the overall brightness of the image.
Connector	Selects the video input connector: - Analog TV Tuner - Composite - S-Video input. If you choose Composite or S-Video, you must specify the Broadcast Standard.
Broadcast Standard	Selects the broadcast standard: - NTSC - PAL - SECAM.

TV Tuner settings

The tuner settings page lets you autoscanner for active TV channels, choose cable or antenna input, name channels, and set channel-specific options.

To open the Tuner settings page

Click the **Setup** button  in the TV control panel, and then click the **TV Tuner** tab.

Setting	Function
Channel Name	You can enter channel names.
Details	Select a channel, and then click the Details button to open the Channel Property Details page (see Channel Property Details on page 13).
Cable Standard	Selects the country and cable or antenna.
Autoscan	Scans for all active TV channels, and stores them when you click the Set button.

Channel Property Details

When you select a channel and then click the Details button in the TV Tuner settings page, the Channel Property Details page opens to let you set properties for particular channels — favorites list, channel assignment, and properties for audio, video, program lockout, and closed captioning.

For example, in the Channel Specific Settings Video page, you could change a channel to SECAM when the other channels are (by default) PAL. In the Closed Captioning page you could enable a set of HOTWORDS™ specifically for a particular channel.

Setting	Function
Channel Name	Type a name for the channel.
Number	Displays the channel number.
Tunes to Station	Specifies the TV station that is received when you tune to a particular channel. For example, you could assign the actual channel 5 to the Television's channel 2. Autoscanning returns all channel assignments to normal (see Autoscan on page 13).

Setting	Function
Channel in Favorite List	Check to add the channel to the channels that TV receives when you click the channel up/down buttons. To remove a channel, uncheck it.
Channel in Visual Selection List	Check to add the channel to the Visual Selection list (see Channel Surfing on page 16). To remove a channel, uncheck it.
Channel Specific Settings	Audio Click Audio, and then click Details to open the Sound details page. Mute Settings • Global Applies mute settings to all channels. • Mute On Mutes selected channel. • Mute Off Cancels all muting. SAP settings • Stereo Activates stereo audio for this channel, if it provides it. • Mono Activates monaural audio for this channel. • Both Activates stereo and mono audio for this channel. Video Click Video, and then click Details to open the Channel Based Video Settings page. Move the sliders to change the values. • Color Amount of color in the image. • Brightness Balance of light and dark in the image. • Contrast Gradation of tone between the image's highlights, midtones and shadows. • Tint Balance of red, green, and blue in the image. Broadcast Standard Choose the broadcast standard for this channel. Channel Lockout Click Channel Lockout, and then click Details to open the Program Lockout Settings page (see Channel Lockout on page 22). Closed Captioning Click Closed Captioning, and then click Details to open the Closed Captioning Channel Settings page (see Closed Captioning on page 17).

TV Stills Gallery settings

You can capture still images from TV, and save them in the Stills Gallery.

To open the TV Stills Gallery settings page

Click the **Setup** button  in the TV control panel, and then click the **Stills Gallery** tab. For information on the Stills Gallery, see [Stills Gallery on page 35](#).

TV Schedule settings

The Scheduler lets you set up TV to watch or record selected TV programs at times you specify. You can also schedule events for CD Audio, TV Magazine, Personal Video Recorder, and File Player.

To open the Schedule settings page

Click the **Setup** button  in the TV control panel, click the **Schedule** tab, and then click the **Create New** button. The Schedule Wizard will guide you through creating new scheduled events. See [Schedule on page 43](#) for details.

ATI TV Bar

Browse the Web and watch TV at the same time, without resizing your windows! ATI TV Bar displays TV in your Internet Explorer Web Browser.



North American users can also view a display of channel names and numbers, with continuously updated program information.

To open ATI TV Bar

- 1** Launch Internet Explorer.

- 2 In Explorer's menu bar, click **View**, point to **Explorer Bar**, and then click **ATI TV**.

Or click the **ATI TV** button in Explorer's menu bar.

If TV is not running, ATI TV Bar opens it, and displays it in the TV Bar. Closing ATI TV Bar also closes TV.

If TV is running, it is displayed in TV Bar, and the regular TV display disappears from your desktop. Closing TV Bar returns TV to its normal display on your desktop.

If you resize Explorer, the TV display automatically fits itself to the new size.

ATI TV Bar controls

From left to right, the ATI TV Bar controls are: Channel down, Channel up, Volume, and Mute.

Channel Surfing

You can browse through several TV channels simultaneously, and select channels by clicking on "thumbnail" images (miniature representations) of the channels. Each thumbnail displays the channel number and is regularly updated to display the current program.



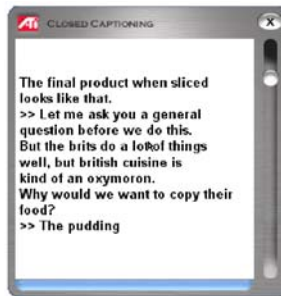
- If any channel in the selection list is a locked-out channel (see [Channel Lockout on page 22](#)), a password is required to access it. If a password is not entered, only unlocked channels are displayed.
- After an autoscan (see [Autoscan on page 13](#)), all detected channels are included in the selection list. A magnifying glass appears to the left of the lock-out icon. Click the magnifying glass button to add or remove the channel from the selection list.
- Most controls are disabled during Channel Surfing.

To use Channel Surfing

- 1 Click the **Channel Surf** button  in the TV control panel.
A grid of thumbnails appears over your TV display.
- 2 Click the thumbnail for the channel you want to preview.
The channel you clicked becomes “live” and then plays video and audio for a few seconds.
- 3 To select a channel for viewing, double-click a thumbnail.
The grid of thumbnails disappears, and then the selected channel appears on your screen.

Closed Captioning

Display closed captioned text over video, like a standard TV, and/or in a separate window beside the video. When you use the separate window, you can use the scroll bar to review the last few minutes of text. You can set the background color, the font, and the font color for the window.



To display closed-captioned text

Click the **Closed Caption** button  in the TV control panel.

To close the Closed Captioning window, click the **Exit** button .

Closed Caption settings

The Closed Caption settings page lets you specify how closed captioned text is displayed — over video or in a window — and the background color, the font, and the font color for the window. You can also set up and enable the HOTWORDS™ and TV Magazine features.

To set up closed captioning

Click the **Setup** button  in the TV control panel, and then click the **Closed Caption** tab.

Setting	Function
Placement	External Window Displays closed captioned text in its own window. Click Font... to select the display font. Video Window Displays closed captioned text superimposed on the video. Click Font... to select the display font. Solid Background Displays closed captioned text on a solid background. Shaded Background Displays closed captioned text on a shaded background.
HOTWORDS™	Enable Check to enable HOTWORDS™ when Closed Captioning is on (see HOTWORDS™ on page 18). HOTWORDS™ Setup Opens the HOTWORDS™ settings page.
TV Magazine	Enable Activates TV Magazine (see TV Magazine on page 20). TV Magazine Setup Opens the TV Magazine Setup Wizard.
Closed Caption On Mute	Display closed captioned text when the audio is muted.
Show Alternate Text If Present	If T1 mode closed captioned data is present in the caption stream, checking this box displays a full page of T1 mode, scrollable, closed captioned text. If you turn off Closed Captioning or change channels, the page is hidden.

HOTWORDS™

Have your computer watch TV for you! When you turn on Closed Captioning, you can specify words and phrases that TV will detect in the closed-captioned text.

You can set HOTWORDS™ to show the matched text, restore TV, play a sound, enable TV Magazine, or enable the Personal Video Recorder when the specified words appear. You can also have TV automatically transcribe the text when the specified words appear.

You can enable HOTWORDS™, and then minimize TV; when the specified words occur, TV opens. You specify words using the HOTWORDS™ setup button in the Closed Caption settings page.

To set up HOTWORDS™

- 1 Click the **Setup** button  in the TV control panel.
- 2 Click **Closed Caption**, and then click the **HOTWORDS™ Setup** button. The HOTWORDS™ Setup Wizard opens.

To enable HOTWORDS™, check the **Enable** box. The HOTWORDS™ Setup Wizard will guide you through HOTWORDS™ setup.

Setting	Function
First Word	Type the first word to be matched.
Match Type	Choose the type of match you want: • By Itself Notify when the First Word occurs. • Followed by Notify when the First Word occurs, and is immediately followed by the Optional Word you specify. • Not Followed By Notify when the First Word occurs, if it is <u>not</u> immediately followed by the Optional Word. • In Sentence With Notify when the First Word occurs, if it is in a sentence with the Optional Word.
Optional Word	Type the word you want to match with the First Word. When you specify an Optional Word, the system only looks for the First Word+Optional Word combination.
Partial	Check this box to notify when a <u>part</u> of the First Word occurs.
Use the Add and Remove buttons to add and remove words from the list.	
Actions to take when your specified word(s) occur.	Show Matched Text Displays the text that matches your specified word(s). Restore Player Opens TV in its current state. Beep
Recording	Enable TV Magazine Activates TV Magazine (see TV Magazine on page 20). Enable Personal Video Recorder Activates the Personal Video Recorder (see Personal Video Recorder on page 28). None

TV Magazine

Use TV Magazine to transcribe closed captioned broadcasting, including pictures and text. You can save files in RTF (Rich Text Format), which preserves formatting and can be used in many word processors, plain text (TXT), or Hypertext Markup Language (HTML). You can use the Schedule feature to start TV Magazine at dates and times you specify (see [Schedule on page 43](#)).



- TV Magazine is only available in North America.
- When TV Magazine is enabled, it transcribes closed-captioned text even if the Closed Captioning button is off

To start TV Magazine

- 1 Click the **Setup** button  in the TV control panel.
- 2 Click the **Closed Caption** tab, and then click the **TV Magazine Setup** button.

To enable TV Magazine, check the **Enable** box. The first time you use TV Magazine, the TV Magazine Setup Wizard will guide you through the setup.

Setting	Function
Select Folder	Select a folder to store the file.
File Format	Select a file format (RTF, TXT, or HTML).
Style	Select the format of the filename.
Options	Overwrite files Check to overwrite existing files. Uncheck to keep existing files. Remove Advertising Automatically skips commercial advertising when you display or transcribe closed-captioned text. It works best with programs that use scrolling transcripts rather than “text bubbles” to record closed-captioned text; for example: Talk shows, News broadcasts, Sports, and Soap operas. (Depending upon the closed-captioning format, commercials may occasionally be recorded—a little experimentation will show you how to get the best results.) Case Conversion Converts all characters to upper or lower case.

Setting	Function
Stop Transcribing After	Specify the number of minutes to transcribe.
Select Layout	No image No images are saved. Images on Left Images are placed on the left, text on the right. Images on Right Images are placed on the right, text on the left. Alternate images Images and text alternate left and right. Use black & white pictures Save images as black & white, to save disk space. Image Density • Sparse (1/page) • Default (2/page) • Dense (4/page)

Zooming and Panning

You can zoom in on the video in the display panel to enlarge a selected portion of the screen, and return your display to normal. You can also pan (move the image horizontally and vertically) in the zoomed area.



To zoom

Click and hold down your left mouse button in the display panel, and then draw a rectangle around the area you want to zoom.

Or, right-click the 1:1 button  to open a menu where you can set the zoom level — Zoom x2, Zoom x4, or Zoom x8.

To pan in the zoomed area

Click and hold down your left mouse button in the zoomed area, and then drag your mouse to pan horizontally or vertically.

To zoom in the zoomed area

Hold down the Shift key, and then draw another rectangle in the zoomed area.

To unzoom

Right-click in the display panel to open the Feature menu, point at **Zooming**, and then click **Unzoom**, or click the 1:1 button  in the control panel.

Video Desktop

To replace your desktop pattern with live TV display when you minimize TV

Click the **Setup** button  in the TV control panel, click the **Display** tab, and then check **Video Desktop**.

When you minimize TV, live TV display replaces your desktop.

A TV icon appears in the “tray” on the right side of the Windows® taskbar. Click the icon to display a small control panel that you can use to change channels and control the volume. Closed-captioned information is not displayed.

To restore your desktop pattern and TV

Click the **TV** button in the Windows® taskbar.

Channel Lockout

Channel Lockout lets you block particular programs at specific times, and set a password to unlock them. Use the Channel Lockout page to specify channel, time, and duration.



- Passwords are **case-sensitive**. For example, PASSWORD, Password, and passWord are *not* the same.
- If you forget your password, you must uninstall and reinstall your TV software to view password-protected programs.

To set Channel Lockout

- 1** Click the **Setup** button  in the TV control panel, and then click the **TV Tuner** tab.
- 2** Click the channel you want, and then click the **Details** button.
- 3** Click **Program Lockout**, and then click the **Details** button.
- 4** Click **Create New**.

The Channel Lockout Wizard guides you through the lockout procedure.

In the channel list, locked-out channels have a padlock  to the right of the channel name.

A lock icon  appears in the control panel when the locked channel is selected.

To remove program lockout

- 1** Click the **Setup** button  in the TV control panel, and then click the **TV Tuner** tab.
- 2** Click the channel you want to unlock, and then click the **Details** button.
- 3** Click **Program Lockout**, and then click the **Details** button.
- 4** Select the program you want to unlock.
- 5** Click the **Delete** button. To remove all program locks, click the **Delete All** button.
- 6** Click **OK**.

The padlock disappears, and the unlock icon  appears in the control panel when the channel is selected.

Parental Control

Parental Control lets you restrict access to TV programs according to their content rating. The video and audio of programs that you restrict will not be recorded until the correct password is entered.



- Parental Control is only available for North American (NTSC) Television.
- Passwords are **case-sensitive**, and must be at least **three characters** in length.
- If you forget your password, you must uninstall and reinstall your TV software.
- The capture still frames feature is disabled, and video recording will stop.

To set a Parental Control level

- 1 Right-click the **Parental Control** button  in the TV control panel to display a menu of choices. The selected level is checkmarked.
- 2 Click the level you want.
The Set Password dialog appears.
- 3 Type your password in the upper box, and then type it in the lower box to confirm it.

The following table summarizes the FCC guidelines for Parental Control.

Programs designed solely for children	
TV-Y	This program is designed to be appropriate for all children.
TV-Y7	This program is designed for children age 7 and above.
Programs designed for the entire audience	
TV-G	General audience.
TV-PG	Parental guidance suggested.
TV-14	Parents strongly cautioned.
TV-MA	Mature audience only.

Recording Video and Still Images

Full-motion video

The Personal Video Recorder lets you record a clip of full-motion video plus audio from your video source and save it as an MPEG, AVI, ATI VCR (proprietary ATI video format), or WMV (Windows Media Video for streaming and download-and-play applications) file on your computer's hard disk. See [Personal Video Recorder on page 28](#) for details.

Still images

Capture full-color, 24-bit-per-pixel still images, save them, and print them. The images are placed in the Stills Gallery, which saves them as Windows-standard bitmaps (.BMP) or a wide variety of standard formats.

The Stills Gallery also supports most industry-standard graphics file formats, so you can insert the images into reports, presentations, letters, and other documents, to add impact to training applications and presentations. See [Stills Gallery on page 35](#) for details.



If the program is restricted by Parental Control, video recording and still capture are disabled (see [Parental Control on page 24](#)).

Recording a clip of video and audio from TV

To record a clip of video and audio

Click the **Record** button  in the TV control panel, or right-click the Record button and select a duration from the menu. The Personal Video Recorder starts recording video and audio to your computer's hard disk. For information on recording formats, see [Personal Video Recorder settings on page 30](#). The right-click menu also provides One Touch Record settings, which let you set the duration, location, and style for the recorded file (for more information, see [One Touch Record on page 33](#)).

To change the file name and location during recording, edit the name and location in the recording panel, or click the **Select a File Name** button .



Four recording presets are available for quick selection — right-click the Record button in the control panel, or click a preset button in the personal Video Recorder Settings page. You can customize any of these presets; when you have selected a preset, click **Map Preset**.

To stop recording

Click the **Record** button  again.



- If the program is restricted by Parental Control, recording will stop (see [Parental Control on page 24](#)).
- You cannot record copy-protected material.

To capture still frames from Television

Click the **Capture** button  in the TV control panel. The current frame is placed in the Stills Gallery (see [Stills Gallery on page 35](#)).



- If the program is restricted by Parental Control (see [Parental Control on page 24](#)), Still Capture is disabled.
- If you are in TV-ON-DEMAND™ mode (see [TV-ON-DEMAND™ on page 26](#)) and displaying the Live: video window, still images are captured from the delayed video, not from the Live: window.

TV-ON-DEMAND™

TV-ON-DEMAND™ lets you pause a live program, return later, and resume watching where you left off. You can view the show from the beginning, even after it has started, without waiting until the whole program is recorded.

You can quickly back up a program, watch the selected portion again, and fast-forward or skip ahead to the live broadcast. You can also export the recorded video as an MPEG (.MPG) file or an ATI VCR file.

To start TV-ON-DEMAND™

Click the **Pause** (lower) button  in the TV WONDER™ USB 2.0 control panel.

To return to broadcast

Click the Play button .

To skip backward and forward in recorded video

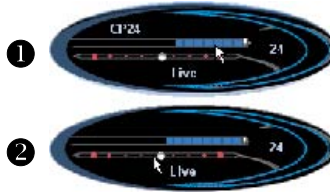
Click the left button to skip back; click the right button to skip forwards. The default settings are: forward – 10 seconds; backward – 30 seconds.



You can right-click the button to change the time settings to 1 frame, 10 seconds, 30 seconds, 1 minute, or 2 minutes.

To move within recorded video

Using your mouse, drag the position slider to move forward or backward in delayed video. As you move the slider all the way to the right, the time display indicates **Live**.



① Position slider

② Jog shuttle — provides fast-forward or fast-rewind for recorded video

To export recorded video

Click the **Export** button  in the TV-ON-DEMAND™ control panel. A dialog appears, where you can select the portion of recorded video you want to save (Range:), and the location to store it (Output File:). You can save exported video in MPEG-2 or ATI VCR format.

- You can export more quickly if you return to live broadcast mode first (but do not return to TV-ON-DEMAND™, or you will overwrite your previously-recorded video).
- The Export button alerts you if there is insufficient video for export.

TV-ON-DEMAND™ history

When you right-click the Time display in the Recording panel, a Go To Time menu lists all programs that TV-ON-DEMAND™ has recorded. To open the program, click its file name.

TV-ON-DEMAND™ uses the Electronic Program Guide (EPG) data to provide the information. If there is no EPG information, or if the data is outdated, the history shows the Channel Number instead of Program Name and Channel Name.

One Touch Record

One Touch Record provides fast recording modes. Right-click the **Record** button  in the control panel, and then click the recording option that you want.

Setting	Function
One Touch Record Settings	Custom duration configuration Type the number of days, hours, and minutes you want to record. Folder for recorded files Choose a location for your recorded files. Recorded file name Type a name for your recorded files. File name style Type a custom name or choose a preset from the list.

Personal Video Recorder

The Personal Video Recorder provides simple controls and powerful recording options. You can record a clip of full-motion video and audio from your video source and save it as an MPEG, AVI, VCR, or WMV file.

You can play recorded files in the File Player. Advanced time lapse and motion triggered recording modes are available.

The Schedule feature lets you record TV programs on the dates and times you specify.

 Because TV-ON-DEMAND™ (see [TV-ON-DEMAND™ on page 26](#)) records to your hard drive, you cannot use the Personal Video Recorder in TV-ON-DEMAND mode. Instead, use the Export function (see [To export recorded video on page 27](#)) when you are in TV-ON-DEMAND mode.

To start the Personal Video Recorder

When you record video from TV (see [To record a clip of video and audio on page 25](#)), the Personal Video Recorder opens automatically.

When you right-click the record button, the following options are available (the available times depend upon your hard disk space).

Option	Function
Record for	Sets the length of time to record.
Record until	Sets the time to stop recording.
Record until manually stopped	Records until you click the Record button again.
Schedule Options	Selects the current input connector, recording settings, and TV Magazine.
Schedule Record	Opens the Schedule Wizard, where you can specify recording frequency.
Show Scheduled Events	Displays a list of Scheduled events.
Recording preset	Lets you change the default recording preset.
One Touch Record Settings	Opens the One Touch Record settings page.
Motion Triggered Recording	Opens the Motion Triggered Recording Wizard.
Time Lapse Recording	Opens the Time Lapse Recording Wizard.
Show Recording Panel	Shows/ Hides the Personal Video Recorder panel, which shows the number of frames recorded and the time remaining on your hard disk.
Recent Recording	Displays a list of the five most recently recorded files. One Touch Record provides one-click recording for specific times and durations. The default recording preset is used (see Recording Preset in Personal Video Recorder settings on page 30).

Personal Video Recorder settings

Use the Personal Video Recorder settings pages to specify recording quality, duration, general options, and custom settings. Several recording modes are available, including advanced modes such as Time Lapse and Motion Triggered.

To set up the Personal Video Recorder

Click the **Setup** button  in the TV control panel, and then click the **Personal Video Recorder** tab.

Setting	Function
Recording Preset These settings are dependent upon your system configuration. Each can be customized.	Check DVD, Good, Longer, Video CD, or Custom. (The higher the quality, the less video you will be able to store on a disk.) Note: The Video CD setting lets you create Video-CD-compliant files that can be played on most consumer DVD players. To create a CD containing the Video CD files, you need a writable CD drive and accompanying CD creation software. For extremely fine control, click the Map Preset button to open the Recording Presets, where you can create and modify preset recording formats. Click the Create New... button to create a new recording preset. The Recording Wizard guides you through the process. Click the Edit... button to create a modified copy of an existing recording preset, or to edit one of your own custom settings. The Recording Wizard will guide you through the process. • Step 2 of the Recording Wizard provides a deinterlacing option. Select it to prevent horizontal streaks ("combing") in captured video, as shown below.  The following, advanced recording settings are available when you click the Map Preset button: Time lapse recording Records video-only, frame-by-frame and save it to an MPEG-1 or MPEG-2 file. You can also manually trigger recording from your keyboard, mouse, or other device. You can use this feature to create stop-motion video (for example, Claymation®-type video). Click the Map Preset button, and then click Time Lapse. To edit the preset, click the Edit button, and follow the on-screen steps.

Setting	Function
Recording Preset	Motion-triggered recording Records video and audio, triggered by motion in the video frame. This feature could be used for security applications or to record only material of interest over time. You can specify an optional “include” rectangle that defines the area to watch for motion, and an “exclude” rectangle that is excluded from motion detection. For example, you could monitor a room, but exclude a fish tank, which would falsely trigger recording. You can simultaneously perform motion triggered and time lapse recording, to record a minimum number of frames over time, but include real-time video when motion occurs. <i>Click the Set Custom button, and then click Default Motion Triggered. To edit the preset, click the Edit button, and follow the on-screen steps.</i> Record in Windows Video Format WMV recording lets you record WMV video to a file. Use these settings to record a Windows Media file for streaming over a 56K dial-up network connection or a cable or DSL network connection. <i>Click the Map Preset button, and then click 56K Modem or Cable/DSL Modem. To edit the preset, click the Edit button, and follow the on-screen steps.</i>
Disk Space	Allocates the amount of disk to store recorded video. Always Record to Temporary Drive Always use a temporary drive while recording, or only when the specified recorded file is not on a local disk. Temporary Drive Selects the drive to hold temporary recorded video. Amount of disk space to leave free on temporary drive Use the slider to set the amount of space to leave on your temporary drive. Use this to prevent the recording from completely filling your drive.
Current Settings	Displays the video format, size, frame rate, and audio format for recorded video.
Capture High Resolution Stills	Captures still images at high resolution.

Setting	Function
One Touch Record	Custom duration configuration Type the number of days, hours, and minutes you want to record. Folder for recorded files Choose a location for your recorded files. Recorded file name Type a name for your recorded files. File name style Type a custom name or choose a preset from the list.

VIDEOSOAP™

VIDEOSOAP™ delivers advanced filtering to reduce noise, improve sharpness, and soften focus as desired, to provide the highest quality video compression for personal video recording and editing functions.



- 1 In the Personal Video Recorder tab, click **Map Preset**, and then choose a recording preset.
- 2 Click the **Edit VIDEOSOAP™** button, choose a VIDEOSOAP™ type, and then click the **Next** button.

You can apply up to four filters, each with its own noise reduction algorithm. Use the sliders to control the strength of the filters.

To preview the effect, choose a preview area, and then click the **Preview** button.
- 3 When you are satisfied with the results, click the **Finish** button.

One Touch Record

One Touch Record provides one-click recording for specific times and durations. The default recording quality is used (see **Recording Quality** in [Personal Video Recorder settings on page 30](#)).

Right-click the **Record** button  in the control panel, and then click the recording option that you want.

Setting	Function
One Touch Record Settings	Custom duration configuration Type the number of days, hours, and minutes you wish to record. Folder for recorded files Choose a location for your captured file. File Name Style Type a custom name or choose a preset from the list.

Optimizing MPEG Video Recording

To access MPEG properties

- 1 Click the **Setup** button  in the TV control panel, and then click the **Personal Video Recorder** tab.
- 2 In Recording Quality, click the **Map Preset...** button.
- 3 Click **DVD**, and then click the **Edit...** button.
Capture Wizard (Step 1) appears.
- 4 Enter a name and description (if desired) for the preset.
- 5 Click **Next**.
The MPEG-specific Recording Wizard pages appear.
- 6 Select MPEG-1, MPEG-2, or ATI VCR, and then click **Next**.

To select I-frame-only MPEG recording

This uses less CPU, but requires two to three times the bit-rate, which produces larger files.

- 1 Click the **I Frames Only** button.
- 2 Click **Next** until you reach Finish, and then click **Finish**.

To select I, B, P frame MPEG recording

This uses more CPU, but greatly reduces the bit-rate required for a given level of video quality.

- 1 In the Recording Wizard, set **Number of P Frames in Group** to **12**.

2 Set **Number of B Frames in Subgroup** to 3.

Note: These are typical values; they can be adjusted.

To record with a minimum number of dropped frames in MPEG-1 or MPEG-2 format, the following settings are recommended. *Ranges* are given, as some video compresses better than others, depending on the amount of rapid motion and the number of complex scenes.

Video Format	IBP Frames (Mbps)	Minimum CPU Required	I-Frames Only (Mbps)	Minimum CPU Required
160 x 120	1.0	P200-MMX	1.0	P200-MMX
352 x 240	1.5	PII-266	2.0	P200-MMX
320 x 480	3.0	PII-400	4.0	PII-266
640 x 480	4.0	Athlon 600	6.0	PIII-450
720 x 480	4.0	Athlon 700	6.0	PIII-450

Mbps = Megabits per second, or millions of bits per second.

1 Mbps is approximately 125Kbytes/second.

If your system is not capable of achieving smooth-looking video, try the following:

- Record I frames only.
- Record using a smaller frame size.

ATI VCR is best suited for Personal Video Recorder use.

MPEG-1 decoders are widely used, so video encoded in MPEG-1 format can be played on many PCs. However, MPEG-1 playback on a PC uses the Microsoft MPEG-1 decoder, which may not provide the best performance.

MPEG-2 playback on a PC requires an MPEG-2 decoder. With ATI graphics cards, MPEG-2 decoders use the ATI hardware IDCT and motion compensation, which provides higher resolution video playback and less CPU loading than the Microsoft MPEG-1 decoder.

Stills Gallery

The still images you capture are saved in the Stills Gallery. You can save images in a variety of graphics formats and sizes. The Stills Gallery controls let you delete images, hide them, save them as wallpaper, and print them.



If you close the Stills Gallery without saving, your captured still images are **deleted**.

When you click the ATI logo  in the upper left corner of the Stills Gallery, the “About” notice appears, and a Task menu displays available and active features.

- For information on Stills Gallery controls, see the online help and Tool Tips.

Stills Gallery settings

Use the Stills Gallery Setup page to define how the Stills Gallery saves and prints captured images.

To set up the Stills Gallery

Click the **Setup** button  in the Stills Gallery, TV, or File Player control panel, and then click the **Stills Gallery** tab.

Selection	Function
Capture Options	Capture to Gallery Captures still images to the Stills Gallery. Capture to numbered file Stores captured images in numbered files (pic001.bmp, pic002.bmp ...) on your hard disk. Capture to clipboard Places captured images on the Windows Clipboard. Capture to printer Sends the captured image to the printer. Use only 256 colors Saves captured images as 256-color files, to save disk space.

Selection	Function
Save Options	Warn if closed without saving Alerts you if you close TV or the Stills Gallery without saving captured images. Show paths of saved images Displays the drive, folders, and subfolders that contain saved images.
Tool Tips	Show Tool Tips Displays tool tips for the Stills Gallery controls. Show Short Cut Displays shortcut keys for the Stills Gallery controls.
Always on top	Keeps the Stills Gallery on top of other applications.
Print Options	Center image Prints image in center of page. Image size: • Maximize Prints in full-page format. • One to one Prints same size as original. • Double Prints twice original size.

CD Audio

Use CD Audio to play standard audio CDs. Advanced features such as Random play, Intro play (which plays the first ten seconds of each track), and Loop play are available. The Schedule feature lets you schedule CD playback on dates and times you specify (see [Schedule on page 43](#)).

When you click the ATI logo  in the upper left corner of the display panel, the “About” notice appears, and a Task menu displays available and active features.

- For information on CD Audio controls, see the online help and Tool Tips.

To start CD Audio from LaunchPad

Click the **CD Audio** button in the LaunchPad.



To start CD Audio from Windows® taskbar

- 1** In the Windows taskbar, click **Start**, and then point at **Programs**.
- 2** Point at **ATI Multimedia Center**, and then click **CD Audio**.

You can also start CD Audio from other ATI TV WONDER™ USB 2.0 features — TV, File Player, and Library. Click the ATI logo  in the upper left corner of the feature's control panel, and then click **CD Audio**.

CD Audio settings

Use the CD Audio Settings page to set up playlists and shuffle play, and to use an LCD panel for track number and playback time.

To set up CD Audio

Click the **Setup** button  in the CD Audio control panel, and then click the **CD Audio Settings** tab.

Setting	Function
Play List	Displays all tracks in the playlist (the list of your selections).
Shuffle Play	Shuffle all tracks Plays all tracks in random order. Shuffle user playlist Plays playlist in random order.
Disc Information	If the information is available, displays the name of the disc and the artist. You can also type in the information.
Available Tracks	Displays the tracks that you can add to the playlist. Use the buttons to add or remove selected tracks or all tracks.
LCD Display	Check to display track number and current playback time on an LCD display.
Tool Tips	Show Tool Tips Display tool tips when you point at a control with your mouse. Show Shortcut Display keyboard shortcuts when you point at a control with your mouse.

CD Audio Schedule settings

You can schedule CD Audio to play on the dates and times you specify. You can also schedule events for TV Magazine, Personal Video Recorder, File Player, and TV.

To open the CD Audio Schedule settings page

Click the **Setup** button in the CD Audio control panel, and then click the **Schedule** tab. The Schedule Wizard will guide you through creating new scheduled events. See [Schedule on page 43](#) for details.

File Player

Use the File Player to play various multimedia file formats. The types of file you can play depends on your system's software. You can play the following, multimedia files:

- MPEG-1.
- MPEG-2 – if an appropriate MPEG decoder (not included) is installed.
- ATI VCR (.VCR – proprietary ATI video file format).
- MIDI (.MID).
- WAV (.WAV).

For information on File Player controls, see the online help and Tool Tips.

Special features

Additional special features are available for File Player:

- THRUVIEW™– see [THRUVIEW™ on page 49](#).
- EAZYLOOK™– see [EAZYLOOK™ on page 50](#).

To start File Player from LaunchPad

Click the **File Player** button in the LaunchPad.



To start File Player from Windows® taskbar

- 1** In the Windows® taskbar, click **Start**, and then point at **Programs**.
- 2** Point at **ATI Multimedia Center**, and then click **File Player**.

File Player Feature menu

You can access File Player functions by right-clicking on the video viewing area or the control panel. This is very useful when you play files in full-screen mode. The following menu items are available:

Setting	Function
Setup	Opens the File Player Setup page.
Hide Controls	Hides the File Player Control panel.
THRUVIEW™ Window	If your computer uses a RADEON™ or later video card, THRUVIEW™ Desktop and THRUVIEW™ Window are available. THRUVIEW™ Desktop blends the File Player display with your desktop; THRUVIEW™ Window blends the File Player display with the current window. You can control the mix using the blend level slider.
Play	Plays the current file.
Stop	Stops playing.
Time Mode	Sets time mode: • Elapsed Time • Remaining Time • Total Time
Zoom	Sets Zoom: • Unzoom • Zoom 2x • Zoom 4x • Zoom 8x
Display Size	Sets playback size: • 50% • 75% • 100% • 200% • Full Screen
About...	Displays the "About" dialog.
Exit	Closes the File Player.

Zooming and Panning

You can zoom in on the video in the File Player display panel to enlarge a selected portion of the screen, and return your display to normal.

To zoom in

Click and hold down your left mouse button in the display panel, and then draw a rectangle around the area you want to zoom.

Or, right-click the **1:1** button  to open a menu where you can set the zoom level — Zoom x2, Zoom x4, or Zoom x8.

To pan in the zoomed area

Click and hold down your left mouse button in the zoomed area, and then drag your mouse to pan vertically or horizontally.

To zoom in the zoomed area

Hold down the Shift key, and then draw another rectangle in the zoomed area.

To unzoom or use predefined zoom levels

Right-click in the display panel to open the Feature Menu (see [File Player Feature menu on page 40](#)), and then click **Zoom**, and select Unzoom, Zoom x2, Zoom x4, or Zoom x8.

Or, click the **1:1** button to unzoom, or right-click the button to open a menu where you can set the zoom level — Zoom x2, Zoom x4, or Zoom x8.

File Player Display settings

The Display settings page lets you control how video is displayed in the File Player.

To open the Display settings page

Click the **Setup**  button in the File Player control panel, and then click the **Display** tab.

Setting	Function
Video Size	Displays video at 50%, 75%, 100%, 200%, or full screen.

Setting	Function
Options	LCD Display Displays track number and current playback time on an LCD display. Always on Top Always displays File Player on top of other applications. Keep Aspect Ratio Maintains the aspect ratio (width-to-height ratio) when you resize the display. Auto Hide Controls when in Full Screen Automatically hides controls in full-screen mode if no user interaction occurs. Controls automatically re-appear if you move the mouse.
Time Mode	Sets the time mode: Elapsed Time , Remaining Time , or Total Time .
Tool Tips	Show Tool Tips Displays helpful aids for using the File Player. Show Shortcut Displays shortcut keys.

File Player Preferences settings

The Preferences settings page lets you specify power management settings.

Power Management	Select one of the following levels: Always Power management always enabled. Disabled while playing Power management is disabled while a CD is playing. Allow display to turn off while paused Only the display turns off when playback is paused. Disabled Power management is never enabled.
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File Player Stills Gallery settings

You can capture still images from the File Player.

To open the File Player Stills Gallery settings page

Click the **Setup** button  in the File Player control panel, and then click the **Stills Gallery** tab. For information on Stills Gallery, see [Stills Gallery on page 35](#).

File Player Schedule settings

You can schedule the File Player to play media files on the dates and times you specify. You can also schedule events for CD Audio, TV Magazine, Personal Video Recorder, and TV.

To set up scheduled events

Click the **Setup** button  in the File Player control panel, and then click the **Schedule** tab. The Schedule Wizard will guide you through creating new scheduled events. See [Schedule on page 43](#) for details.

Schedule

The Scheduler lets you set up TV WONDER™ USB 2.0 to play particular files and/or watch or record selected TV channels, start TV Magazine, and capture video at times you specify. You can also schedule events for CD Audio.

To set up scheduled events

- 1 Click the **Setup** button  in the TV, CD Audio, or File Player control panel.
- 2 Click the **Schedule** tab, and then click the **Create New** button.

The Schedule Wizard will guide you through creating new scheduled events. Step 4 of the Wizard asks if you want to set up feature-specific settings (for example, if you are recording video, you can specify quality and duration for particular events). When you click the **Finish** button, your event is added to the scheduled event list; checked items are active.

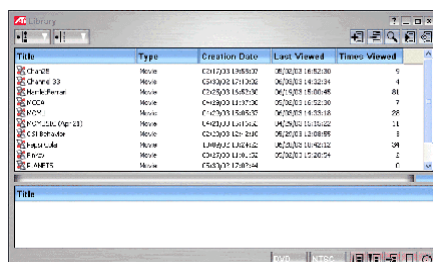
Schedule settings

Setting	Function
Name	The name of the event. Checked events are active.
Feature	The feature to schedule: CD Audio, File Player, TV, TV Magazine, or Video Capture.
When	When the event occurs.
Next Run Time	The next time the event will run.
Modify	Click to change values for a scheduled event.
Delete	Removes a scheduled event.
Delete All	Removes all scheduled events.

- Events whose date (On Month & Day) has passed are not automatically removed. To re-activate an event, set its Month & Day to today or later.
- If a settings page is open, or if the About Help box is being displayed, the Scheduler cannot process events. If an event occurs, a warning dialog tells you that a particular event was not processed.
- When ATI TV WONDER™ USB 2.0 first runs, if there are any scheduled events recorded, and the Scheduler program is not running, a warning dialog tells you that the scheduled events will not be processed.
- You can run the Scheduler immediately, and/or install it in your Windows Startup file, so that it runs every time Windows is started. the warning dialog is displayed whenever you click OK after adding an item to the scheduled viewing list.

Library

The Library provides a convenient way to manage and play all your multimedia files. When you record video or audio, it is automatically added to the Library. You can scan directories for multimedia content, filter by file type and date, set up playlists, and convert media files to ATI VCR or MPEG-2 format.



The upper window contains the multimedia content that the Library finds in the specified directory. You can drag files from the upper window into the lower window to create playlists of various multimedia files.

- Library does not track files on removable media, such as CDs.
- For information about using Library controls, see the online help and Tool Tips

Special feature

EAZYLOOK™ is also available for Library — see [page 50](#).

To start the Library from LaunchPad

Click the **Library** button in the Launchpad.



To start the Library from Windows® taskbar

- 1 In the Windows® taskbar, click **Start**, and then point at **Programs**.
- 2 Point at **ATI Multimedia Center**, and then click **Library**.

To scan for content

- 1 Click the **Scan for Content** button  to scan for media files in the directory you specify.
- 2 Select the content to scan for — All, Movie, Picture, Document, or TV-ON-DEMAND — and follow the on-screen directions.

Library adds any of the following types of files that it finds in the directory you specified.

- The Music category scans for .WAV, .MP3, .MID, and .WMA audio files.
- The Movie category scans for .VCR, .AVI, .ASF, .MPG, .MPEG, .MP2, .MOV, and .WMV video files.

Filtering files

You can filter the media files in the Library to display only the file types and time periods you want.

To filter by Type

Click the **Type** button  in the upper left corner of the Library to filter by media type:

All, Movie, Music, Picture, Document, or TV-ON-DEMAND (see [TV-ON-DEMAND™ on page 26](#)).

To filter by date

Click the **Date** button  in the upper left corner of the Library to filter by date, protection status, and unviewed:

All, Today, Yesterday, This week, Last week, Protected from deletion, or Unviewed. (To protect files from deletion, select one or more entries in the main view, right-click, and then click **Protect from deletion**.)

Converting media files

When you capture video from TV, setting the Recording Quality to Good or Longer saves files in ATI VCR (Proprietary ATI video format), which can only be played on the ATI File Player.

To convert ATI VCR files to MPEG format

- 1** Add the .VCR file to the Library by scanning for content or by dragging it into the Library's content (upper) window.
- 2** Right-click the file, and then click **Export to MPEG-2** or **Export to MPEG-4** in the drop-down menu.

MPEG-4 capture is compatible with ISO 14496-2, Advanced Simple Profile Format Addendum video encode function, which defines a number of levels of encode functionality; MP3 format audio encoding is provided for DivX compatibility.

- 3** Save the file in the location of your choice (the default is My Documents in your Windows® desktop).
 - You can also convert TV-ON-DEMAND™ files recorded from ATI TV to MPEG-2 format (see [TV-ON-DEMAND™ on page 26](#)).

Making playlists

Select files from the Library's content (upper) window and drag them into the playlist (lower) window to build a playlist of files that will play in the sequence you specify. You can set up a loop that plays your selections continuously, and you can shuffle selections so that they play in random order.

You can export playlists into M3U (MP3 playlist format). Right-click the playlist window, and then select **Export playlist to M3U**. You can store these files in your My Documents folder.

Recommended content deletion

You can have the Library find and delete files that meet the following criteria.

- Age
- Time since last viewed
- Size
- Type
- Protection status

- 1** Right-click in the content (upper) window, and then click **Recommend Content Deletion**.
- 2** Select the criteria for deletion, and then click **Next**.
- 3** To delete selected files, click the file(s) you want to delete, and then click **Remove Selected**. To remove all files, click **Remove All**.
- 4** Click **Finish**.

Teletext

ATI's new Teletext application lets you get the most out of working with Teletext. ATI Teletext eliminates all the familiar disadvantages of television's teletext, and allows you to surf in the teletext data stream.

- Teletext is available only in Europe.



The Teletext browser includes the Teletext window, which you can drag and resize, and a control panel that you can use to print, play, pause, save, and search Teletext. You can open two Teletext browsers at the same time, and you can use the REMOTE WONDER™ (see [REMOTE WONDER™ on page 3](#)) to control Teletext from your couch.

- Teletext always runs in real time, even if you are using TV-ON-DEMAND™ (see [TV-ON-DEMAND™ on page 26](#)).

To start Teletext

While TV is running, right-click the **Closed caption** button  in the control panel. Click **Teletext over video** to display teletext over the video, or click **Teletext Browser** to display Teletext in its own window.

Teletext settings

The Teletext settings page lets you save Teletext pages and control the display.

To open the Teletext settings page

Click the **Setup** button  in the TV control panel, and then click the **Teletext** tab.

Selection	Function
Save Page As	ANSI Saves page as ANSI text. Bitmap Save page as bitmap.
Placement	Solid Background Displays Teletext on a solid-color background. Transparent background Displays Teletext over TV display.
Cache All Pages	Stores all Teletext pages in your computer's memory for faster retrieval.

Selection	Function
Always On Top	Displays Teletext browser on top of other applications.
Keep Aspect Ratio	Maintains the width-to-height ratio when the browser is resized.

Special Features

TV and File Player provide these special features:

- THRUVIEW™ displays Blended Window or Blended Desktop if your computer uses an ATI RADEON™ or later video card.
- EAZYLOOK™ displays large, on-screen, remote control information if you have an ATI REMOTE WONDER™ (see [page 3](#)) and a supported ATI RADEON™ or later video card. It also provides assistance when you use the Library (see [page 44](#)), navigate in TV Listings (see [page 50](#)), or navigate Teletext (see [page 47](#)).

THRUVIEW™

- THRUVIEW™ Desktop: The current panel appears full-screen as a translucent layer on top of all other windows when minimized.
- THRUVIEW™ Window: The current panel appears as a translucent layer on top of any other windows, allowing you to work and watch media at the same time.

When you select THRUVIEW™ Desktop or THRUVIEW™ Window in the Display Settings page (see [File Player Display settings on page 41](#)), minimizing File Player displays a blended desktop or blended window. Closed captioned text is not displayed with TV.

A File Player icon appears in the “tray” on the right side of the Windows taskbar. Click the icon to display the blend control panel, which you can use to adjust the blend level, change channels, and control the volume.

You can also enable THRUVIEW™ Desktop or THRUVIEW™ Window when File Player is not minimized: right-click the display panel or the control panel, and then in the Feature menu, click **THRUVIEW Desktop** or **THRUVIEW Window**.

To restore your desktop pattern and File Player, click the **File Player** button in the Windows taskbar.

EAZYLOOK™

Designed to work with the REMOTE WONDER™ (see [REMOTE WONDER™ on page 3](#)) in full-screen mode, EAZYLOOK™ displays large, on-screen information about remote control functions when you watch File Player. It also provides assistance when you use the Library or navigate in TV Listings.



Some keyboard shortcuts are unavailable with EAZYLOOK™ — use your REMOTE WONDER™ to enjoy full remote control functionality.

- In all modes, the left and right mouse buttons are used to accept or cancel actions.

To set up EAZYLOOK™

Open the Multimedia Center Configuration Tool, and then click the **EAZYLOOK™** tab. You can set EAZYLOOK™ to start when you:

- Press any REMOTE WONDER™ button.
- Press the REMOTE WONDER™ full-screen button.
- Go to full-screen mode.

You can set EAZYLOOK™ to stop when you:

- Press the REMOTE WONDER™ Power button.
- Press any keyboard key.
- Press ESC on the keyboard.

TV Listings

Gemstar's GUIDE Plus+™ is an electronic television programming guide for Microsoft Windows®. It provides advanced program information, such as station names and numbers, as well as program names and details.

You can schedule recording and viewing sessions, search for programs, and maintain a list of your favorite shows. For more information, see the TV Listings Help.



- TV Listings is available only in selected countries.
- Before you use TV Listings for the first time, it is recommended that you complete the TV Initialization Wizard (see [Setting up TV on page 8](#)).
- You need an internet connection to download the TV listings to your computer.
- Running Gemstar GUIDE Plus+™ weekly will keep your TV listings current.

To start TV Listings

Click the **TV Listings** button  in the TV control panel, or click the **TV Listings** button in the LaunchPad.



To access TV Listings information from TV

When you Autoscan, TV Listings provides station names (see [Autoscan in TV Tuner settings on page 13](#)).

When you change channels, the current program name, and the station name and number are displayed.

While watching TV, right-click the TV Listings button to get the following options:

- **What is on TV Now!:** If TV Listings has information about this program, it displays a panel containing detailed program information.
- **What is on TV Next!:** If TV Listings has information about this program, it displays detailed program information for the next program.
- **Auto Update:** As time passes, or as you change channels, the TV Program Details panel updates its program information.
- **Copy:** Check this to copy the TV Program Details panel's information into your Windows clipboard.

Right-clicking in the text area of the TV Program Details panel also provides access to the Auto Update and Copy features. You can also set the following Scheduling options:

- Use current Input Connector.
- Use current Recording settings.
- Use current Magazine settings.
- While viewing What is on TV Now!, you can schedule recording or TV Magazine.



- When you use TV Listings, the TV Control panel is hidden and some features are unavailable.
- TV Listings is unavailable when you use Channel Surf (see [Channel Surfing on page 16](#)) or Video capture (see [Recording Video and Still Images on page 25](#)).

Setting up TV Listings

Registration

The first time you launch the Gemstar GUIDE Plus+™ system, you will need to register. This allows you to download the listings for your area or cable service.

To download updated listings

- 1 In the File menu, click **Download Weekly File**.

The Download Assistant opens.

- 2 Click the **Download** button to download the listings.

To make changes, click the **Change Settings** button.

To customize channels

The Edit menu contains two features related to the channel list:

- **Station Lists** lets you create and maintain a list of stations, based on the master list for your area or cable service.
- **Channel Numbers** lets you assign and maintain channel numbers for each station.

Getting around

To navigate the various TV Listings views, click the tab for the view you want, or select the appropriate view from the View menu at the top of the screen.

Use the mouse or cursor keys to move within the current view. Left-click to select an item and display its details in the details window above the grid or log.

Right-click to open a pop-up menu with various options:

Watch	Adds the item to your Watch schedule (see Schedules tab on page 56).
Record	Adds the item to your Record schedule (see Schedules tab on page 56).
Favorite	Adds the item to your Favorites list (see Favorites Search on page 55).
Details and Showtimes	Opens a window that includes a detailed description of the program, as well as additional air dates.
Go To	Tunes the PIP (Picture-In-Picture — the window in the in the upper left corner of the guide where the TV picture is displayed) to the selected station.

Recording

TV Listings works with your TV tuner to automatically record shows.

When you select a program to record, a pop-up window appears, requesting a file name and location to save the file.

When you select a program for recording, the Record icon appears next to the title in any view where that program is displayed.

- To remove a program from the Record Schedule, simply click the Record icon next to the program title.

Viewing

TV Listings works with your TV tuner to automatically display shows.

When you select a program for viewing, the Watch icon appears next to the title in any view where that program is displayed.

- To remove a program from the Watch Schedule, simply click the Watch icon next to the program title.

Views

There are two main views for the guide: Grid and Log.

Grid view displays 24 hours of listings in a table (similar to your newspaper or cable guide). Use the arrow keys to scroll up, down, left, or right. You can also scroll using the horizontal and vertical scroll bars.

- Scroll to a specific program to display its details in the area above the grid.
- To display just the stations you want, use the **Station Lists** option in the **Edit** menu (see [To customize channels on page 52](#)).

Log view displays the data in a list, in the following order: Date/Station/Category and Title/Episode. Use the arrow keys to scroll up, down, left, or right. You can also scroll using the horizontal and vertical scroll bars.

- Scroll to a specific program to display its details in the area above the log.
- To display just the stations you want, use the **Station Lists** option in the **Edit** menu (see [To customize channels on page 52](#)).

Filter options

Click the Filter icon to open the Filter options dialog, where you can adjust the current view and quickly locate programs. Select the boxes you want to apply to the current view, and click **Close**.

Select the **Use Station List** checkbox to apply the most recently customized station list.

Actors tab

The Actors tab displays all actors and actresses starring in all the movies in the current listings. A list of actor names is displayed on the left of the screen. Click the name of the actor for whom you want to display all movies and show times.

- Use the arrow keys to scroll up and down in the Actors List.
- You can also type an actor's partial or full name in the textbox above the Actors List to quickly locate that actor.
- Scroll to a specific program to display its details in the area above the list.
- To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Categories tab

The Categories tab displays all genre categories in the current listings. A list of genre categories is displayed on the left of the screen.

- Click the category you want to view, to display all titles for that category on the right side of the screen.

- Double-clicking on categories with a + sign opens a list of sub-categories on the right side of the screen.
- Use the arrow keys to scroll up and down in the Categories List. You can also scroll using the horizontal and vertical scroll bars.
- Scroll to a specific program to display its details in the area above the log.
- To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Searches

Gemstar GUIDE Plus+™ comes with a powerful search engine to help you find the programs you want. You can save and maintain a list of custom searches to run each week, as well as a Favorites Search that tracks your favorite shows and movies.

Favorites Search

Access the Favorites Search under the Searches tab. Favorites are a special list of show titles that you keep and use to find your favorite shows with a mouse click. You can add and remove items from your favorites list from any view in the guide.

- Favorites is always the first search displayed in the Searches tab. It behaves like other searches, but it cannot be deleted.
- When one of your favorites appears in any view of the guide, a “happy face” icon appears in front of the title.

Typically, you use the favorites list to find your preferred shows when your data file is updated. Select the Favorites Search from the list of searches, and the guide will look up and display all your favorite items. You can then select any or all of these items into your Schedule. You can set Favorites in two ways:

- In any view, select an event you want to place in your Favorites list. Right-click to open the Event menu, and then select the **Favorite** option to toggle the item in or out of your Favorites list.
- In any list of events, three checkboxes appear in front of the event. The right checkbox is the **Favorites** indicator; click to toggle it.

Movies tab

The Movies tab displays all movie sub-categories for all movies in the current listings, on the left side of your screen.

- Click the category you want to view; all titles for that category will be displayed on the right side of your screen.
- Use the arrow keys to scroll up and down in the Movies List. You can also scroll using the horizontal and vertical scroll bars.
- Scroll to a specific program to display its details in the area above the log.
- To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Schedules tab

A schedule is a list of TV events that you have selected in any view, including search results. The schedule is in the form of a Log View (see [page 54](#)). There are three lists you can choose from:

- **Watch** displays all events with at least the Watch indicator set.
- **Record** displays all events with at least the Record indicator set.
- **All** displays all events with either the Watch or Record indicator set.

In any view, when an event has been scheduled, an icon appears in front of the title, indicating whether the item is scheduled to watch, record, or both. Scheduled items can be added and removed in two ways:

- In any view, select the event you want to place in your schedule, right-click to open the Event menu, and then select **Watch** or **Record** to toggle the item in or out of your list of scheduled items.
- In any list of events, three checkboxes appear in front of the event; the left checkbox is the Watch indicator, and the center checkbox is the Record indicator. Click either to toggle it.

Searches tab

The Searches tab displays a list of saved searches, including a list of personal Favorites (see [Favorites Search on page 55](#)), which is always the first search in the list. The Search title is automatically updated when you click it.

- To create a new search, click the **Search** menu, and then click **New Search**. The Search dialog opens.
- To edit a saved search, double-click the search title, or launch the Search dialog (as above), and then click **Load Search**.

Setting search parameters

To start a new search, in the Searches menu, click **New Search** to open the Search dialog, which you can use to set the following options:

Stations	Select All or None using the appropriate buttons at the bottom of the list. To use selected stations, click the station names to highlight them.
Program Categories	Select All or None using the appropriate buttons at the bottom of the list. To use selected categories, click the category names to highlight them.
Date/Time Ranges	Use the pull-down items to select date ranges, and the check boxes to select the hours you wish to include in your search.
Rating	Highlight one or more entries in this list to search for movies with specific quality ratings.
MPAA	Highlight one or more entries in this list to search for movies with specific MPAA ratings.
Parental Guidance	Highlight one or more entries in this list to search for movies with specific ratings.
Text Search	Enter names, titles, and/or keywords in the text box. Check the Title , Desc , and/or Performers boxes to search the appropriate fields for the text.
Year of Release	Use the pull-down items to search for movies before, after, or within specific years.

Use the icons at the top of the Search dialog to:

- Create a new search.
- Load an existing search.
- Save the current search criteria.
- Run the current search.
- Exit the search dialog.

Sports tab

The Sports tab displays all sports sub-categories for all sporting events in the current listings, on the left side of your screen. Click the category on the left side of the screen for which you want to display all titles. Titles will appear on the right side of the screen.

- If you have the **Use Station List** checkbox in the Filter options checked (see [Filter options on page 54](#)), only those stations in the currently-selected station list are displayed.

- Use the arrow keys to scroll up, down, left, or right. You can also scroll using the horizontal and vertical scroll bars.
- Scroll to a specific program to display its details in the area above the log.
- To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Stations tab

The Stations tab displays listings for each station, on the left side of your screen. Click the station you want, or use the arrow keys to move up or down the list. The listings for that station are displayed on the right side of your screen.

There are two ways to view listings in the Stations tab. You control how the listings are displayed via the Stations tab **Format** option:

- 1 **Log view** is the standard view. Each station is shown in its own, rolling log.
- 2 **Grid view** can be activated from the Grid Mode option of the View menu (see [Views on page 53](#)). Each station is shown as a 24-hour grid.
 - Use the arrow keys to scroll up or down. You can also scroll using the horizontal and vertical scroll bars.
 - Scroll to a specific program to display its details in the area above the list.
 - To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Titles tab

The Titles tab displays all titles in the current listings, on the left side of your screen. Click a title to display all show times for that title, on the right side of your screen.

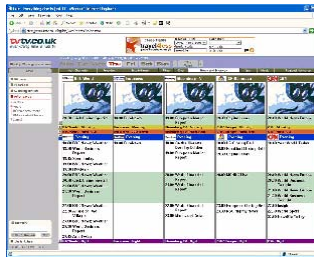
- Use the arrow keys to scroll up or down. You can also type a partial or full Title name in the textbox above the Title list, and quickly jump to a particular title.
- Scroll to a specific program to display its details in the area above the log.
- To display just the stations you want, use the **Station Lists** option in the Edit menu (see [To customize channels on page 52](#)).

Days and dates

Each view contains listings for the current date. To change the date, select the date you wish to view from the **Dates** menu at the top of the screen.

FAST tvtv For PC

FAST tvtv for PC is a Web-based program guide that provides advanced program information, such as station names and numbers, as well as program names and details.



FAST tvtv Program Guide

You can schedule recording sessions, search for programs, and maintain a list of your favorite shows.



- Fast tvtv for PC is available only in Europe.
- Internet access is required to use FAST tvtv for PC.

To start the FAST tvtv for PC setup Wizard

Right-click the **TV Listings** button  (if you have not yet run the Wizard, left-clicking will start it). The FAST tvtv for PC Setup Wizard will guide you through the setup. After completing the Wizard, you will need to use the Tuner Settings page (see [TV Tuner settings on page 13](#)) to manually assign the channels to stations.

CHAPTER 3: TROUBLESHOOTING

Troubleshooting

If you have problems with video or audio, try these suggestions.

Audio problems

No sound

Check your speakers:

- If you have external speakers, ensure that they are powered-on (POWER indicator light is on) and connected to the LINE-OUT or SPEAKER OUT connectors on your sound card.

Still no sound?

Play a .WAV sound:

- 1 Click **Start**, point at **Settings**, select **Control Panel**, and then double-click **Sounds and Audio Devices**.
- 2 In the **Events** area, Click **Asterisk**, and then click a .WAV file in the **Sound** area.
- 3 Click the Play button  to preview the sound.

If you still do not hear any sound, open the Volume Control:

- Click **Start**, point at **Programs**, point at **Accessories**, point at **Entertainment**, and then select **Volume Control**.
Or, right-click the speaker icon (usually in the lower-right corner of your screen), and then click **Open Volume Controls**.

If the speaker icon is not in your Taskbar, do the following:

- In the Windows Taskbar, click **Start**, point to **Settings**, and then click **Control Panel**.
- Double-click **Sounds and Audio Devices**.
- In the **Volume** tab, check **Place volume control in the Taskbar**, and then click Apply.

- Ensure that the **Master Volume** and the **Wave** channel are not muted or set very low.

When you hear sound from your speakers, you know they are working.

Video problems

Video is unstable or only black and white

- Check that you are using the correct broadcast standard format. See *Broadcast Standard* in [TV video settings on page 12](#). For proper operation, you must specify your country in the *TV Channels Initialization Wizard* (see [page 8](#)).
- Check the quality of your incoming TV signal on another receiver; bad reception may be the cause.

There is no video or audio

- Ensure that your cable or antenna is connected.
- Ensure that the video connector is set to the correct source (see **Connector** in [TV video settings on page 12](#)).
- Check that your video card is securely seated in its slot. Please refer to the user guide for the card location.

Video stutters or contains green lines

- In the LaunchPad, click the Multimedia Center Configuration button , click the **TV** tab, and then ensure that **ATI USB 2.0 Video Capture** is selected as the Primary TV Capture Source.
- Video may stutter if other devices use a USB port while you watch TV. The stuttering should stop when the other device's activity ends. If your system has frequent USB activity or if stuttering continues, you can reduce the required USB bandwidth:
 - a) Close TV, and then check the **Use reduced USB bandwidth** option. The following message appears: "Enabling this option may reduce corruption in video on some systems. This option may also disable some TV functionality."
 - b) *Windows® XP only:* Close TV, switch to BULK mode, and then start TV.



Options **a)** and **b)** are available only if ATI USB 2.0 Video Capture is selected as the Primary TV Capture Source.

CHAPTER 2: PRODUCT REGISTRATION

This chapter contains helpful information concerning ATI product registration, customer service, and warranty.

To receive Customer Service you must register your product with ATI within 30 days of purchase. An Online Product Warranty Registration form is available at ati.com/online/registration.

Customer Care

For detailed instructions on how to use your ATI product, refer to the Online User's Guide included on your ATI installation CD-ROM.

If you require further assistance with your product, the following Customer Care* options are available:

Online:

For product information, video drivers, Frequently Asked Questions and Email support visit: ati.com/online/customercare.

Telephone Support:

U.S and Canada:

English support available Monday to Friday, 9:00 AM - 7:00 PM EST.

Complimentary Customer Care: 905-882-2626

Support available to registered users (International and/or local toll charges to Canada will apply).

Priority Pay-for-Access: 900-733-2841

ATI Customer First priority access available at \$1.25 per minute (subject to change without notice).

Priority Pay-per-Incident: 877-284-7379

ATI Customer First pay-per-incident access available at \$19.95 per incident (subject to change without notice).

Europe and Other Regions

English, German, and French support available Monday to Friday 10:30am - 7:00pm GMT.

International Customer Care: +49-1803-347345

Support available to registered users (International toll charges to Germany will apply).

Mail:

ATI TECHNOLOGIES INC.
Attention: Customer Service
1 Commerce Valley Drive East
Markham, Ontario
Canada L3T 7X6

*ATI Customer Care will work to resolve your issue and help you to get your ATI product up and running. If your issue is not resolved, our technicians will determine whether the difficulty you are experiencing is the result of the ATI product, whether your product contains a defect, and whether your product is under warranty.

- ATI Customer Care is unable to assist with refunds, returns, or exchange specific inquiries. If resolving the problem being experienced is critical to your decision to keep the product, it is your responsibility to ensure that you know and are within the period of time your reseller will allow for refunds, returns or exchange.
- ATI is not responsible for any expense incurred accessing Customer Care. It is expected that customers will review the expense associated with the available support options and will choose the method that best meets their needs and budget.
- ATI Customer Care reserves the right to limit support options for products that are not registered or are at End of Life.

CHAPTER 3: WARRANTY INFORMATION

Warranty Information

Hardware Warranty Service Statement

ATI Technologies Inc. warrants to the original purchaser of the hardware that the product is in good working condition, according to its specifications at the time of shipment, for a period of three years from the date of original purchase.

Should the product, in ATI's opinion, malfunction within the warranty period, ATI will, at its discretion, repair or replace the product upon receipt with an equivalent. Any replaced parts become the property of ATI. This warranty does not apply to the software component of the installation, usage not in accordance with product specifications and instructions, natural or personal disaster, or unauthorized alterations, repairs, or modifications.

- Proof of purchase may be required, if doubt exists regarding warranty eligibility. Late model products are assumed to be under warranty. ATI accepts originals, photocopies and faxes as proof of purchase when required.

Warranty Service

For warranty service instructions visit: ati.com/online/warranty or contact one of our Customer Service Representatives using one of the aforementioned means.

- Before shipping any unit for repair, obtain an RMA number for warranty service.
- When shipping your product, pack it securely, show the RMA and serial number of the product on the outside, and ship prepaid and insured.
- ATI will not be held liable for damage or loss to the product in shipment.
- Standard warranty service consists of repair upon receipt.
- ATI reserves the right to replace the product with a serviced product at their sole discretion at any time.
- You are responsible for the cost of shipping the product to ATI. ATI pays the cost of returning the product to you.

Products which are repaired under warranty are guaranteed for the remainder of the original warranty period. Repairing or exchanging a product does not start a new warranty period. If, at the time of repair, a product is already “out of warranty” or within the last 90 days of the warranty period, ATI will guarantee the repair for the full 90 days. All other terms and conditions of the original warranty apply.

Limitations

- This warranty is valid only if the online Product Warranty Registration form at: ati.com/online/registration is successfully submitted within 30 days of purchase of said product.

- All warranties for this product, expressed or implied, will expire three (3) years* from date of original purchase.

*The REMOTE WONDER™ unit is warranted for 1 year.

All accompanying cables and accessories are warranted for 90 days.

- No warranties for this product, expressed or implied, shall extend to any person who purchases the product in a used condition.
- The liability of ATI in respect of any defective product will be limited to the repair or replacement of such product. ATI may use new or equivalent-to-new replacement parts. Defective product will be sent in for repair or replacement only. ATI makes no other representations or warranties as to fitness for a particular purpose, merchantability or otherwise in respect of the product. No other representations, warranties or conditions, shall be implied by statute or otherwise. In no event shall ATI be responsible or liable for any damages, including but not limited to the loss of revenue or profit, arising:
- From the use of the product, as a result of any event, circumstance, action or abuse beyond the control of ATI; whether such damages be direct, indirect, consequential, special or otherwise and whether such damages are incurred by the person to whom this warranty extends or a third party
- From the loss of use of the product, as a result of any event, circumstance, action or abuse beyond the control of ATI; whether such damages be direct, indirect, consequential, special or otherwise and whether such damages are incurred by the person to whom this warranty extends or a third party.

- Unauthorized repairs to an ATI board level product will void the warranty offered by ATI Technologies. ATI reserves the right to refuse to service any product which has been altered, modified, or repaired by non-ATI service personnel.

Getting Additional Accessories

Additional and replacement cables, installation CD-ROMs, manuals and other accessories for ATI products can be purchased from the online ATI store at ati.com/online/accessories.

CHAPTER 4: COMPLIANCE INFORMATION

FCC Compliance Information

This product complies with FCC Rules part 15. Operation is subject to the following two conditions

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The use of shielded cables for connection of the monitor to the graphics card is required to ensure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada Compliance Statement

ICES-003 This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

For further compliance information:

ATI Research Inc.
4 Mount Royal Ave.
Marlborough, MA
01752-1976
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508-303-3900

CE Compliance Information

EMC Directive 89/336/EEC and amendments 91/263/EEC, 92/31/EEC and 93/68/EEC, Class B Digital Device

EN 55022:1998/CISPR 22 Class B, Limits and Methods of Measurement of Radio Interference Characteristics Information Technology Equipment.

EN 55024:1998, Immunity of Information Technology Equipment (ITE), including

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,

EN 61000-4-6, EN 61000-4-11

EN 60950:92 + A1:93 + A2:93 +A3:95 + A4:97

Directive EMC 89/336/CEE et amendements 91/263/CEE, 92/31/CEE et 93/68/CEE, dispositif numérique de Classe B

EN 55022:1998/CISPR 22 Classe B, Limites et méthodes de mesure des caractéristiques d'interférences radiophoniques, Matériel des technologies de l'information.

EN 55024:1998, Norme sur l'immunité de matériel des technologies de l'information, et comprenant

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,

EN 61000-4-6, EN 61000-4-11

EN 60950:92 + A1:93 + A2:93 +A3:95 + A4:97

EMC Richtlinie 89/336/EEC und Änderungen 91/263/EEC, 92/31/EEC und 93/68/EEC, Digitales Gerät der Klasse B

EN 55022:1998/CISPR 22 Klasse B, Beschränkungen und Verfahren der Messung von informationstechnischen Ausrüstungen mit Funkstörmerkmalen

EN 55024:1998, Unempfindlichkeits-Standard für informationstechnische Ausrüstungen, einschliesslich

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,

EN 61000-4-6, EN 61000-4-11

EN 60950:92 + A1:93 + A2:93 +A3:95 + A4:97

EMC Directive 89/336/EEC and Amendments 92/31/EEC and 93/68/EEC, for Class B Digital Device.

EN 55022:1998/CISPR 22:1997, - Class B - Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment.

EN55024:1998/CISPR 22:1997, - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement.

Low Voltage Directive for TV-Tuner-Equipped products

73/23/EEC - The Low Voltage Directive.

EN 60950: 1992+A1+A2+A3+A4 - Safety of Information Technology Equipment.

L'Information de conformité de la CE

Directive EMC 89/336/CEE et amendement 92/31/CEE et 93/68/EEC, dispositif numérique de Classe B.

EN 55022:1998/CISPR 22:1997, - Class B - Limites et méthodes de mesure des caractéristiques d'interférences radiophoniques, Matériel des technologies de l'information.

EN 55024:1998/CISPR 24:1997, Limites et méthodes de mesure des caractéristiques d'immunité, Matériel des technologies de l'information Equipement de Technologie de l'Information - Caractéristiques d'Immunité - Limites et méthodes de mesure.

Directive de Basse Tension pour produits contenant tuner de télévision

73/23/CEE - Directive basse tension.

EN 60950 : 1992+A1+A2+A3+A4 - Sécurité du matériel des technologies de l'information.

CE-befolgungsinformationen

EMC Richtlinie 89/336/EEC und Änderungen 92/31/EEC und 93/68/EEC, Digitales Gerät der Klasse B.

EN 55022:1998/CISPR 22:1997, - Klasse B - Grenzwerte und Meßverfahren für Funkstörungen von Einrichtungen der Informationstechnik.

EN 55024:1998/CISPR 24:1997, Einrichtungen der Informationstechnik, Störfestigkeitseigenschaften, Grenzwerte und Prüfverfahren.

Niederspannung Richtlinie für Produkte Enthalten Fernsehen tuner

73/23/EEC - Niederspannungsrichtlinie.

EN 60950: 1992+A1+A2+A3+A4 - Sicherheit für Einrichtungen der Informationstechnik.

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